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## ENGINE INFORMATION

<table>
<thead>
<tr>
<th>ENGINE MAKE</th>
<th>CUMMINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>KTA50-GS8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engine Speed</th>
<th>RPM</th>
<th>1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Power Output at rated rpm</td>
<td>kWm</td>
<td>1429</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cooling</th>
<th>Radiator Cooled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration</td>
<td>Turbocharged &amp; Aftercooled</td>
</tr>
<tr>
<td>Total Displacement</td>
<td>Liter</td>
</tr>
<tr>
<td>No. of Cylinders and Build</td>
<td>16</td>
</tr>
<tr>
<td>Bore and Stroke</td>
<td>mm x mm</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>14.9:1</td>
</tr>
<tr>
<td>Governor</td>
<td>Electronic</td>
</tr>
<tr>
<td>Fuel Consumption (L/hr)</td>
<td>Full Load</td>
</tr>
<tr>
<td></td>
<td>75% Load</td>
</tr>
<tr>
<td></td>
<td>50% Load</td>
</tr>
<tr>
<td>Fuel Tank Capacity (Non-UL)</td>
<td>Liter</td>
</tr>
<tr>
<td>Oil Capacity</td>
<td>Liter</td>
</tr>
<tr>
<td>Coolant Capacity (Radiator capacity to 110% of load condition)</td>
<td>Liter</td>
</tr>
</tbody>
</table>

Diesel powered generator sets remain the number–one choice for standby and emergency power systems, worldwide. Able to start and assume load in less than 10 seconds, and rated load in a single step, Cummins diesel generator sets are the epitome of rugged dependability and reliable mechanical and electrical performance. Diesel generators are also well suited to utility peaking plants, Distributed Generation (DG) facilities, peak shaving (or peak lopping), and power management at large commercial or industrial sites.

As a mature technology, Cummins clean and modern diesel–powered generators offer these key benefits:
- Rapid product availability
- Proven reliability and low life–cycle costs
- High efficiency and operational flexibility
- High quality electrical performance
- Well–established service and fuel supply infrastructure
- Optional factory–integrated exhaust after treatments reduce emissions for high–hour use in environmentally sensitive locations.
## CONTROLLER INFORMATION
### DEEP SEA MODEL 7420

The DSE7420 is a control module for single gen-set applications. The module incorporates a number of advanced features to meet the most demanding on-site applications. The DSE7420 is an Automatic Start Control Module designed to start and stop diesel and gas generating sets that include electronic and non-electronic engines. The module includes USB, RS232 and RS485 ports as well as dedicated DSENet® terminals for expansion device connectivity. The modules are simple to operate and feature a simple menu layout for improved clarity. Enhanced features include a real time clock for enhanced event and performance monitoring, Ethernet communications for low cost monitoring, dual mutual standby to reduce engine wear and tear, and preventative maintenance features to detect engine part faults prior to a major problem occurring.

### MAIN FEATURES:

#### NEW FEATURES
- Neutral position on breakers
- Mains current protection
- Improved mains detection 3phase 3 wire
- Additional programmable logic
- Improved modem diagnostics
- Remote control sources (10) can be accessed via SCADA
- Additional electrical trip options
- Additional start delay functions
- Oil pressure values from additional engines
- Front panel editing of scheduler
- Now displays kW as % of rated kW setting

#### STANDARD FEATURES
- Backed up real time clock
- True dual mutual standby with load balancing timer
- Ethernet communications
- Multiple date and time maintenance scheduler
- 132 x 64 pixel LCD display
- Configurable display languages
- Programmable event logging (250), showing reason, date and time
- Robust module enclosure
- Five key menu navigation
- Durable soft touch membrane buttons
- Fully configurable via PC software
- LED and LCD alarm indication
- Engine exercise mode
- Configurable start & fuel outputs
- kWh monitoring
- Automatic load transfer
- (11) Configurable inputs
- (8) Configurable outputs
- Configurable timers and alarms
- Modbus RTU / TCP
- Magnetic pick-up
- Selected front panel programming
- Multiple date and time exercise scheduler
- Configurable display pages
- Programmable load shedding/acceptance
- Mutual standby
- Preventative maintenance
- kW overload protection
- 3 alternative configurations
- Unbalanced load protection
- SMS messaging (external modem required)
- Power save mode
- Security levels - PC software has password system to control access to PC software features
- Configuration file downloads from an external memory device
- RS232 & RS485 communications
- DSENet® compatible

### BENEFITS
- 132 x 64 pixel ratio makes information easy to read
- Real time clock provides accurate event logging
- PC software is license free
- Set maintenance periods can be configured to maintain optimum engine performance
- Ethernet communications provides advanced remote monitoring at low cost
- Modules can be integrated into building management systems
- Preventative maintenance avoids expensive engine down time
- Advanced PCB layout ensures high reliability

### OPERATION
The module is operated using the front STOP/RESET, MANUAL, AUTO, TEST and START pushbuttons. An additional pushbutton next to the LCD display is used to scroll through the modules metering displays.

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## ALTERNATOR INFORMATION

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Stamford Newage - PI734C</td>
</tr>
<tr>
<td>Design</td>
<td>Brushless single bearing, revolving field</td>
</tr>
<tr>
<td>Stator</td>
<td>2/3 pitch</td>
</tr>
<tr>
<td>Rotor</td>
<td>Single bearing, flexible disc</td>
</tr>
<tr>
<td>Insulation System</td>
<td>Class H</td>
</tr>
<tr>
<td>Standard Temperature Rise</td>
<td>125 - 163°C Continuous</td>
</tr>
<tr>
<td>Exciter Type</td>
<td>Self Excited</td>
</tr>
<tr>
<td>Phase Rotation</td>
<td>A (U), B (V), C (W)</td>
</tr>
<tr>
<td>Alternator Cooling</td>
<td>Direct drive centrifugal blower fan</td>
</tr>
<tr>
<td>AC Waveform Total Harmonic Distortion</td>
<td>No load &lt; 1.5%. Non distorting balanced linear load</td>
</tr>
<tr>
<td>Telephone Influence Factor (TIF)</td>
<td>&lt;50 per NEMA MG1-22.43</td>
</tr>
<tr>
<td>Telephone Harmonic Factor (THF)</td>
<td>&lt;2%</td>
</tr>
</tbody>
</table>

## BATTERIES

- 24 Volt DC
- CCA at 0 to 55°C
- Sized for 3 or more cranking cycles without recharging (-10 to 60°C)
- Includes all necessary battery cable, interconnecting conductors and connections
- Metal battery compartment with acid resistant finish and thermal insulation.
- Battery heater to maintain battery above 10°C (-10 to 60°C)
- Battery secured to battery compartment

## INCLUDED ITEMS (Per Quotation)

### ENGINE OPTIONS
- Racor Fuel Water Separator
- Coolant Jacket Heater

### ALTERNATOR OPTIONS
- Permanent Magnet Generator
- Anti-Condensation Heater

### OTHER OPTIONS
- Power Module
- UL-142 Base Mounted Fuel Tank (complies with NFPA 30)
- Critical Grade Silencer (Roof Mounted)
WEIGHT AND DIMENSIONS

SKID MOUNTED GENERATOR

<table>
<thead>
<tr>
<th>DIMENSIONS (LxWxH)</th>
<th>mm</th>
<th>5230 x 2230 x 2550</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRY WEIGHT</td>
<td>kg</td>
<td>11560</td>
</tr>
</tbody>
</table>

SOUND ATTENUATED GENERATOR

<table>
<thead>
<tr>
<th>DIMENSIONS (LxWxH)</th>
<th>mm</th>
<th>12192 x 2438 x 2896</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRY WEIGHT</td>
<td>kg</td>
<td>23560</td>
</tr>
</tbody>
</table>

FEATURES AND BENEFITS OF ENCLOSURE:

- All enclosure parts are modular
- No welding to reduce corrosion
- Doors on both sides for easy maintenance
- All metal parts are powder coated
- Critical Exhaust Silencer Included
- Thermally insulated exhaust system
- Emergency stop located on exterior
- Easy Lifting and Moving

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www.gopower.com

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